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Exhibit No.:

Issues: Low-Income Program;

Large Customer Annualization

Witness:

Anne E. Ross Sponsoring Party: MoPSC Staff

Type of Exhibit: Direct Testimony

Missouri Public Case No.:
Service Cerminissionate Testimony Prepared: GR-2004-0072 January 6, 2004

### MISSOURI PUBLIC SERVICE COMMISSION UTILITY OPERATIONS DIVISION

#### DIRECT TESTIMONY

**OF** 

**ANNE E. ROSS** 

AQUILA, INC. D/B/A AQUILA NETWORKS MPS AND AQUILA NETWORKS L&P

**CASE NO. GR-2004-0072** 

Jefferson City, Missouri January 2004

exhibit was

# BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the Matter of Aquila, Inc. d/b/a Aquila ) Networks - MPS and Aquila Networks - ) Case No. GR-2004-0072 L&P Natural Gas General Rate Increase			
AFFIDAVIT OF ANNE E. ROSS			
STATE OF MISSOURI	) ) ss		
COUNTY OF COLE	)		
Anne E. Ross, of lawful age, on her oath states: that she has participated in the preparation of the foregoing testimony in question and answer form, consisting of 9 pages of testimony to be presented in the above case, that the answers in the foregoing testimony were given by her; that she has knowledge of the matters set forth in such answers; and that such matters are true to the best of her knowledge and belief.  Anne E. Ross			
Subscribed and sworn to before me this day of January, 2004.			
My commission expires	DAWN L. HAKE  Motary Public - State of Missouri  County of Cole  My Commission Expires Jan 9, 2005		

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3		ANNE E. ROSS	
4 5 6		AQUILA, INC. D/B/A AQUILA NETWORKS MPS AND AQUILA NETWORKS L&P	
7		CASE NO. GR-2004-0072	
8	Q.	Please state your name and business address.	
9	A.	Anne E. Ross, P.O. Box 360, Jefferson City, Missouri 65102.	
10	Q.	By whom are you employed and in what capacity?	
11	A.	I am a Regulatory Economist with the Missouri Public Service	
12	Commission (Commission).		
13	Q.	Please describe your educational background.	
14	A.	I graduated from the University of Missouri-Columbia in 1986 with an	
15	undergraduat	e degree in Business Administration. I graduated with a Masters of	
16	Business Administration in 1989.		
17	Q.	Please describe your work experience.	
18	A.	I have been employed with the Commission as a Regulatory Economist	
19	since 1989. I have also been an adjunct professor at Columbia College since 1989.		
20	Q.	What has been the nature of your duties while in the employ of the	
21	Commission	•	
22	Α.	The general nature of my duties at the Commission have included Class	
23	Cost of Servi	ice, Rate Design, Large Customer Analysis, and the design of programs for	
24	lower income natural gas customers.		
25	Q.	Have you previously filed testimony before this Commission?	

- A. Yes. Schedule 1 is a list of the gas cases in which I have filed testimony.
- Q. What is the purpose of your direct testimony?

A. The purpose of my direct testimony is twofold. First, I will describe the revenue adjustments that the Staff is proposing for the Company's General Service – Industrial Sales, Large Volume Sales, Large Volume Transportation, and Special Contract Transportation customers. In addition, in this case I am sponsoring an experimental weatherization/rate design/arrearage forgiveness program designed to help lower-income customers afford to heat their homes in the winter. One of the important components of the program is lowering a customer's usage by providing adequate weatherization measures. I will discuss this part of the program in this direct testimony, and the rest of the program design in direct testimony that I will file next week.

#### **ADJUSTMENTS TO LARGE CUSTOMERS**

- Q. What types of modifications are made to large customer's test year usage?
- A. Typical adjustments include adjustments for customers coming on or going off the system during the test year; for accounts that take service on more than one tariff during the year; and weather normalization.
  - Q. What is done if a customer comes on the system during the test year?
- A. In this instance, billing units and revenues are increased to reflect a full 12 months of usage.
  - Q. What is done if a customer goes off the system during the test year?
- A. In that case, the customer's billing units, and the associated revenue, are decreased, since the customer is no longer on the system, and will not provide any revenue for the Company.

- Q. What type of adjustment is made if a customer takes service under two or more rate codes during the test year?
- A. This is called rate-switching. In this case, the customer's usage and revenue is removed from the original class, and added to that of the new class, as it is assumed that, in a normal year, the customer will take service under only one tariff.
  - Q. Why would customers switch from one rate to another?
- A. Rate switching, can occur for several reasons. The nature of a customer's operations may have changed, and taking service under another tariff is now more appropriate. The customer may find it to be economical to switch to another customer class. Finally, the customer may decide to procure its own gas, which would also make a rate switch necessary.
- Q. Are you sponsoring Staff adjustments to reflect rate-switching and customer additions or losses?
- A. Yes. In the Aquila Networks MPS North & South districts (MPS N&S), adjustments S-2.5 and S-6.4 reflects the revenue effect resulting from customers switching to and from the Company's Large Volume Sales and Large Volume Transportation classes. Adjustment S-6.2 adjusts Large Volume Transportation revenues to reflect the loss of an MPS N&S customer during the test year. In the Aquila Networks L&P (L&P) district, adjustment S-2.6 and S-5.2 reflects the revenue effect resulting from customers switching to and from the Company's Large Volume Sales and Large Volume Transportation classes. There were no adjustments made to the Aquila Networks MPS Eastern district (MPS E.)
  - Q. Have you considered adjustments for weather normalization?

- A. Yes, I reviewed Company witness Sullivan's weather normalization of these classes. Although I do not agree with all of the detailed calculations he performed, the overall effect of the weather normalization for the large customers was negligible. Based on the small dollar impact of the adjustments, and the constraints on Staff's manpower resources, I find Mr. Sullivan's weather normalization adjustments to the large customers to be reasonable, and I am making the same adjustments to the Staff numbers.
  - Q. Which adjustments reflect weather normalization?
- A. In the MPS N&S EMS run, adjustments S-2.4, S-6.3 and S-6.5 reflect the weather adjustment. In the MPS-E district, adjustment S-6.2 adjusts transportation revenues for weather. The L&P district General Service Industrial, and Large Volume Commercials were weather-normalized in adjustments S-2.4 and S-2.5.
- Q. Does this conclude your direct testimony on adjustments to large customer usage?
  - A. Yes.

#### **PROPOSED WEATHERIZATION PROGRAM**

- Q. You stated earlier that you are sponsoring an experimental program for lower-income Aquila customers, and that you will discuss the weatherization component in this filing.
- A. As part of an overall experimental program, Staff is proposing that \$50,000 be earmarked for weatherization in the Sedalia area. For the MPS N&S District, this revenue adjustment is S-51.1. For the L&P District, this is reflected in adjustment S-49.1.
  - Q. Why is weatherization important to this type of program?

Direct Testimony of Anne E. Ross A. The installation of permanent, cost-effective efficiency weatherization measures is an excellent long-term action to address the problem of unaffordable natural gas bills, and should be a part of any program designed to assist certain low-income customers in paying their utility bills. Q. How much, on average, does it cost to weatherize a home in Missouri? In Missouri, the average cost to weatherize a home is \$2,500. A. Q. What is the estimated life of weatherization measures that might be part of this experimental program? Weatherization measures have a life of about 20 years. A. What is the estimated energy savings for a weatherized home? Q. Weatherizing a home cuts both heating and cooling costs, with resulting A. estimated annual natural gas savings as high as 23%, and annual electricity savings at about 12%.

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- Q. What type of cost/benefit ratio do weatherization measures have?
- A. Various studies have estimated the cost/benefit ratio of weatherization to be as high as 3.71 for each dollar invested. I have not reviewed any documentation that does not show a positive cost/benefit savings.
  - Q. What are some of the benefits of weatherization for the household?
- A. Performing needed weatherization should lower the household's energy bills. This will enable the household to use the same amount of energy and spend less, or, if the household has been turning down the furnace in an attempt to keep the bill low, the household can use an adequate amount of energy for the same price.

Another benefit is the improvement in the safety and health of the occupants. During the weatherization audit and work, inspectors also measure carbon dioxide levels in the home, make sure that there is an adequate number of working smoke alarms, and detect dangers such as faulty wiring or unsafe appliances. Once the weatherization is completed, the safety of the household is increased due to the decreased use of hazardous heat sources, such as a damaged furnace, old electric space heater or unsafe woodstove, which reduce the possibility of a fire or other accident.

- Q. Does weatherization have any benefits for the state or local economy?
- A. Weatherization can benefit the state/local economy in several ways. First, the improvements to the housing stock increases property values, and the area's tax base. In addition, local workers are trained to do the weatherization, and many of the supplies are bought locally, which stimulates the local economy.

After weatherization, some of the dollars that used to go to pay the utility bill can now be spent locally. Approximately 70% of a Residential customer's bill goes to pay for the natural gas itself, with the other 30% paid to the Missouri utility for delivery. Since Missouri is not a natural-gas producing state, most of the 70% of gas revenues will leave the state. If a customer's bill is lowered, the amount of money that can stay in the local and state economy is increased.

Finally, weatherization can help even those low-income Missourians whose homes have not been weatherized. Poor Missourians whose homes have been weatherized will have lower bills, allowing the scarce energy assistance dollars to go to those whose need is even greater.

Q. Can weatherization benefit higher income customers?

### Direct Testimony of

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- Anne E. Ross A. Weatherization reduces expenses associated with the collection activities of the utility, since households are better able to pay their bill in full. It reduces the dollar amount of late payments and the amount of uncollectible expense. Disconnection and reconnection expenses are decreased. All of these actions benefit the other utility customers. These types of savings must be tracked by the Staff and Company to determine the level of benefits this program will provide to all customers of Aquila, Inc.'s Missouri customers. Q. Aside from utility-sponsored programs, is there any other source of weatherization funds for households in Missouri? 10 Yes. The Missouri Department of Natural Resources provides A.
  - weatherization through its Low-Income Weatherization Assistance Program (LIWAP.) This program has been in existence since 1977.
    - Q. Please describe the program.
  - LIWAP uses funds from the Department of Energy to weatherize eligible A. households. To participate in this program, households must:
    - Be at or below 150% of the Federal Poverty Level (FPL).
    - Apply for LIHEAP assistance.
    - Reside in a home that is structurally sound enough to be weatherized.
  - Why does Staff believe that Sedalia would be a good choice for this type Q. of program?
  - A. Staff looked at various characteristics of the gas territories that Aquila Inc. serves, and it appears that the Sedalia area would provide a good base for an experimental program that includes weatherization. First, about 80% of the homes in Sedalia are

heated with natural gas. That's quite a bit higher than the state average of 57.5%. (Source, United States Census Bureau.) Second, the housing stock in Sedalia is relatively old, especially that of the lower-income residents. Of home-owners with income below the FPL in 1999, 85% lived in a home that was built before 1970, compared to 59% statewide. The comparison for renter-occupied housing units for this income category is less dramatic, 58% vs. 54% statewide. The age of the house is an important factor, because homes built before the energy crisis of the mid-70's are more likely to lack adequate insulation and other energy-saving features.

Finally, Staff met with the Missouri Valley Community Action Agency (MVCAA), which serves this area. MVCAA currently administers the LIWAP funds, and can provide outreach and weatherization services with a minimum of added administrative costs and start-up time and activities.

- Q. How should the weatherization program be structured?
- A. Staff believes that it would be appropriate to offer energy audits and weatherization services to households whose income is in the range of 50% 125% of the FPL. Other than the income level criteria, which is somewhat narrower than the Federal program, we believe that the program should be structured the same as the LIWAP to facilitate ease of administration.
- Q. What if a customer's home is so structurally unsound that it cannot be weatherized?
- A. If the customers' home cannot be weatherized due to the condition of the residence, the customer will not qualify for the experimental program, but will be referred to other programs for which they may be eligible.

- Q. Are there other benefits to combining this program with existing weatherization programs?
- A. Yes. MVCAA has a waiting list for the LIWAP weatherization program. Some of these applicants are Aquila gas customers. Since this program is aimed at Aquila's gas customers, it will shorten not only the waiting period for these customers, but also the waiting time for all other residents on the waiting list.
  - Q. Does this conclude your direct testimony?
  - A. Yes

### CASES FILED BEFORE COMMISSION

CASE NO.	COMPANY
GR-90-50	Kansas Power and Light
GR-90-120	Laclede Gas Company
GR-90-152	Associated Natural Gas
GR-90-198	Missouri Public Service Gas
GR-91-249	United Cities Gas Company
GR-91-291	Kansas Power and Light
GR-92-165	Laclede Gas Company
GR-93-42	St. Joseph Light and Power - Gas
GR-93-47	United Cities Gas Company
GR-93-172	Missouri Public Service Gas
GR-93-240	Western Resources
GR-94-220	Laclede Gas Company
GA-94-127	Tartan Energy Company
GR-95-160	United Cities Gas Company
GR-96-193	Laclede Gas Company
GR-96-285	Missouri Gas Energy
GR-99-42	St. Joseph Light and Power - Gas
GR-2002-356	Laclede Gas Company
GR-2003-517	AmerenUE

Exhibit No.: Issues:

Witness:

Anne E. Ross

Sponsoring Party:

Mo PSC Staff

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Case No.: GR-2004-0072

Date Testimony Prepared:

January 13, 2004

### MISSOURI PUBLIC SERVICE COMMISSION UTILITY OPERATIONS DIVISION

#### **DIRECT TESTIMONY**

**OF** 

ANNE E. ROSS

AQUILA, INC. D/B/A AQUILA NETWORKS MPS AND AQUILA NETWORKS L&P

**CASE NO. GR-2004-0072** 

Jefferson City, Missouri January 2004

## BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the Matter of Aquila, Inc. d/b/a Aquila	)	
Networks - MPS and Aquila Networks -	)	Case No. GR-2004-0072
L&P Natural Gas General Rate Increase		

#### AFFIDAVIT OF ANNE E. ROSS

STATE OF MISSOURI	)
	) ss
COUNTY OF COLE	)

Anne E. Ross, of lawful age, on her oath states: that she has participated in the preparation of the foregoing testimony in question and answer form, consisting of 19 pages of testimony to be presented in the above case, that the answers in the foregoing testimony were given by her; that she has knowledge of the matters set forth in such answers; and that such matters are true to the best of her knowledge and belief.

anne E. Ross

Subscribed and sworn to before me this

day of January, 2004.

Notary Public

TONI M. CHARLTON
NOTARY PUBLIC STATE OF MISSOURI
COUNTY OF COLE
My Commission Expires December 28, 2004



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1		DIRECT TESTIMONY
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3		ANNE E. ROSS
4		AQUILA, INC.
5		D/B/A AQUILA NETWORKS MPS
6		AND AQUILA NETWORKS L&P
7		CASE NO. GR-2004-0072
8	Q.	Please state your name and business address.
9	A.	Anne E. Ross, P.O. Box 360, Jefferson City, Missouri 65102.
10	Q.	Are you the same Anne E. Ross who previously filed Direct Testimony in this
11	case?	
12	Α.	Yes.
13	Q.	What is the purpose of this Direct Testimony?
14	Α.	The purpose of my Direct Testimony is describe an experimental program
15	designed to	help low-income customers struggling with payment of natural gas bills in
16	Sedalia, Mis	souri which is the largest community in Aquila's Southern System gas service
17	territory. T	his pilot program contains components designed to address three areas which
18	affect the lev	rel of a customer's bill. These areas are:
19 20 21		Energy Efficiency through Weatherization Arrearage Management and Affordable Prices.

#### WHY PROGRAMS FOR LOWER-INCOME CUSTOMERS ARE NEEDED

- Q. Why does the Commission need to set up a special program for lower-income natural gas customers?
- A. Lower-income customers are increasingly finding themselves unable to pay their full gas bills. There have been major changes in the natural gas market in the past 10 years, and the price of the commodity has risen dramatically. Schedule 1 attached to this Direct Testimony shows the level of the Purchased Gas Adjustment of Aquila ~ MPS ~ Southern system from November 1993 November 2003. As one can see from the graph, the purchased gas price was approximately 35¢/Ccf in 1993 and was approximately 80¢ last May. That's a 133% increase. To put this in perspective, in the same time period, the minimum wage has increased from \$4.25 to \$5.15, a 21% increase.
- Q. Do you have any real evidence that Aquila's gas customers are having increasing problems paying their bill?
- A. Yes. In the Aquila MPS districts, the balance in the Uncollectible account has gone up 1,164% in the past 10 years.
- Q. Do you believe this increase in uncollectibles can somewhat be attributed to low-income customers?
- A. Yes. The inability of these customers to pay their full bill is more than a personal or social problem it is a revenue problem for the utility, and ultimately a cost borne by other customers. Arrearages, written-off bad debt, customer service and collection expenses, the costs of disconnecting service all are costs driven by customers' inability to pay, and are factored into the rates paid by all customers.

Q. Have you seen any evidence that taking action to make customers' bills affordable lowers the level of the Company's expenses in a cost effective way?

A. Yes. It should be noted that Missouri is just beginning to address this problem compared to other states. In the next several years, the Commission Staff should have a considerable amount of information to better evaluate future programs.

For example, a 1997 Order of the Pennsylvania Public Utility Commission stated that, "Given the result of impact evaluations already reviewed, we expect that EDCs [Electric Distribution Companies] will choose to enhance their CAPs [Consumer Assistance Programs] as a cost effective strategy for serving low-income customers." (Final Order Re: Guidelines for Universal Service and Energy Conservation Programs, Made Pursuant to 66 Pa. C,S, Sections 2803, 2802 (17), 2804(8) and 2804(9), Docket No. M-00960890F00100, issued July 7, 1997)

According to an article in the Northwest Energy Coalition Report, Public Utility Commissions in Pennsylvania, New York, and Wisconsin, "...recognized that utility investments in bill assistance benefit both shareholders and other ratepayers by reducing utilities' costs." (Volume 17, Northwest Energy Coalition Report, No. 10 @ p.3)

In their evaluation of the Oregon Energy Assistance Program (OEAP), a program providing regular, and/or crisis, bill-paying assistance to low-income households, Quantec LC concluded that from the company and ratepayer perspective, three year benefit/cost (b/c) ratios ranged from 0.96 b/c in year one to 1.61 b/c in year three, with societal/Oregon b/c ratios of 1.03 b/c to 1.71 b/c. (Table V.2). Benefits were measured by looking at, among other things, the reduction in arrears, terminations, collection activities, and shutoffs.

Q. Won't lowering the amount that customers must pay for their energy then lower the amount the utility collects?

A. No; in fact, it may very well increase the amount collected. An evaluation of the Guarantee of Service Plan, a Percentage of Income Payment Plan (PIPP), initiated by Clark County, WA, Clark Public Utilities, and NW Natural Gas, found that before the Guarantee of Service Plan (GOSP) program began, low-income customers paid about \$29/month to the utility; after participation in the program, average monthly payments increased to \$52/month. (NW ECR; 17/10, p. 1) The study estimated that, by the third year, the utility had saved about \$300,000 as a direct result of a 36% decline in the amount written off due to non-payment (NW ECR; 17/10, p. 1) and concluded that "...most impressive was the fact that low-income customers themselves paid more once they felt their utility bills were under control." (Volume 17, Northwest Energy Coalition Report, No. 10 @ pp.3-4)

In "Low Income Consumer Utility Issues: A National Perspective," a 2000 report by Jerrold Oppenheimer and Theo MacGregor, the authors comment that "Thus, if the bills are made more affordable, experience demonstrates that low-income customers in general will pay more of their bill. As arrearages grow, low-income customers are apt to become fearful of ever getting out from under their debt...In fact, that customer is likely to become discouraged and to stop making any payments at all."

#### WHO ARE THESE CUSTOMERS?

- Q. Are there different types of low-income customer (LIC's)?
- A. Yes. The Staff believes there are three general types of LIC's.
- Q. Please describe the different types of LIC's.

A. The first type of LICs are households with extremely low or no income. These are people who will probably never be able to pay their gas bills, or even a portion of them, no matter what the price. They are unable to obtain sufficient income and use it to pay their utility bills. Perhaps they are elderly, with little retirement income, or disabled, or mentally or physically ill, or maybe they just can't hold a job. In addition, there are households who just refuse or can't pay their heating bill regardless of the amount of the bill. Regardless of this, these households need heat in the winter.

The second group has a source of income, but it is not sufficient to pay a significant portion of their energy bills, especially in the winter. These households were unable to pay their full gas bills before the increase in natural gas prices, and are even further behind currently. These households must rely on energy assistance from Community Action Agencies to attempt to stay current with their energy bills. Only through the assistance from these agencies can this customer group continue to receive utility service.

The third group is composed of customers who have a steady source of income but earn barely enough to meet their families' basic needs; for example, senior citizens on a fixed income, and the 'working poor' or 'new poor', as I have heard them characterized. An increase in the price of a necessity, like natural gas, can create a situation where these customers can no longer pay their utility bills without foregoing other, equally important needs, like food or medical care. Unlike the households in group two above, these LICs usually do not qualify for energy assistance because of their annual income. However, these customers continue to struggle to stay current with their energy bills.

Q. Please describe your definition of "low-income customers" for this program.

A. For purposes of this program, the term "low-income customer" or household refers to households with income from 50% - 125% of the Federal Poverty Level (FPL). Schedule 2 attached to this Direct Testimony shows the program's income range for various household sizes.

- Q. For purposes of the Staff's program, what study area has the Staff chosen?
- A. The area which includes Sedalia, Missouri.
- Q. What do you know about this group of low-income customers that reside in Sedalia, Missouri?
- A. Utilities do not normally collect income or other detailed demographic information on their customers, and, in fact, increased information gathering on the participants is a necessary component of the evaluation of Staff's program.

Using 2000 U.S. Census data, I can describe characteristics of the population of Sedalia, Missouri. Since over 80% of the households in Sedalia heat with natural gas, I believe that this information is going to be representative of the Aquila natural gas customers in Sedalia. One caveat is that Census data measures poverty at 100% of the FPL, so any statistics from that source will be statistics of households from 1 – 100% of the FPL, unless otherwise noted. The upper income level of Staff's program is 125% FPL.

- Q. What are some of the general characteristics of Sedalia residents?
- A. The 1999 median annual household income in Sedalia was \$28,641, substantially lower than the state median income of \$37,934. The unemployment rate in Sedalia (Pettis County) was estimated at 5.1% in December 2002. This is slightly above the state unemployment rate of 4.8% (Missouri WORKS! Labor Market Information). The higher unemployment rate in Pettis County was reflected in the count of households receiving

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wage or salary income of some kind - 77% statewide, but only 72% in Sedalia. The rankings were reversed for households receiving Social Security income, with 33% of households in Sedalia receiving this form of income, as compared to only 28% of households statewide.

Looking at the poverty statistics for Sedalia is even more definitive. About 22% of the population in Sedalia has income at or below 125% of the FPL. Almost 30% of children five and under live in a household with income less than 100% FPL, as do 17% of those 65 years and older.

- Q. What are some of the factors that exacerbate the inability of these households to pay their utility bill?
- A. Low-income households spend a much larger percentage of their income on energy compared to moderate or higher-income households. In other words, they have a much larger energy burden. While a low-income family can scale down some expenditures (i.e., buy an older car, shop at thrift shops), they can only cut back so far on the amount of natural gas required to keep their family warm in the winter, which gives them little control over their bill. Compounding the problem, the homes of many of these customers are older structures with inadequate insulation, inefficient furnaces, and other problems which make the gas usage of the household unnecessarily high. Higher efficiency appliances, or measures such as insulation, will save money over the life of the improvement, but the initial investment is currently not within their income levels.
- Q. Gas bills fluctuate during any year. Does this pose an additional problem for LIC's?
- A. Yes, bills which fluctuate to the degree that gas bills do generally affect many households regardless of income level. These types of fluctuations severely affect the LIC's.

Many of these customers have fixed incomes, and cannot deal with the large fluctuations in gas bills. Many lower wageworkers live paycheck to paycheck. They are in a financial position where they have little or no savings, and most likely have few sources of supplemental income, such as loans from family members. Many times, these customers are able to stay current on their gas bills during the summer but cannot pay their entire gas bill during the winter. This creates frustration and a feeling of hopelessness. To complicate matters even more, during the summer when the customer could begin to pay down their gas arrearages, many customers are facing the challenge to stay current on their electric bills.

- Q. Wouldn't budget billing solve this problem?
- A. Even a levelized billing plan doesn't solve the problem. While it keeps the household's bill down in the winter months, they will owe more than usual in the summer months, when they are trying to cool their houses and pay their higher electric bills. This problem can be remedied somewhat if a customer who receives both gas and electric service from the same utility (as do the Sedalia customers) would agree to budget billing for both gas and electric.
- Q. What is one possible customer response to this type of chronic income shortfall?
- A. The customer pays the bills. They may go without other necessities, such as medical care, food, or clothing but, if at all possible, they pay the bill.
- Q. What do you believe finally happens with those customers who find that they cannot stay current with paying their bills and start accumulating large bill arrearages?

- A. Many LICs with large arrearages will continue to make some payment, far below their current bill, but yet some amount of money in an effort to continue to receive gas service and discharge their obligation.
  - Q. What about the rest of those payment-troubled households?
- A. I believe that many eventually give up. The situation begins to appear hopeless so the customer pays other, more manageable bills.
- Q. How can a household receive gas heating service if they do not have the income to pay for it?
- A. There are a variety of ways by using emergency energy assistance, by changing the name on the account, by moving, by discontinuing gas service in the warm months, and many others that I'm not even aware of.

### HISTORY OF LOW- INCOME ASSISTANCE ACTIVITIES AT THE PSC

- Q. What has been the Public Service Commission's response to this problem?
- A. The Cold Weather Rule was implemented by the Commission in 1977, with an Emergency Cold Weather Rule enacted during the winter of 2000-2001. Furthermore, the Commission has been actively involved in several task forces and committees, such as the Missouri Energy Task Force, the Natural Gas Commodity Price Task Force, and the Committee to Keep Missourians Warm, as well as other activities, such as the recently held Town Hall Meetings in many areas around the state. The Staff believes that as a result of the Cold Weather Rules, this Commission has recognized the need for space heating for LICs during the winter period. However, this program does not provide the protection for the customer once the winter season has passed and the spring season arrives. At this time, many LIC's have large arrearages and face the immediate threat of losing their gas service. The

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purpose of this testimony is not to suggest any changes to the current Cold Weather Rule Program, but only to point out that if the pilot program as proposed by the Staff is accepted. that many LIC's who must deal each year with the possibility of gas service disconnection may actually become full time current paying customers.

- Q. What has been the response of the natural gas utilities to this growing problem?
- A. Missouri Gas Energy (MGE) implemented an Experimental Low-Income Rate program as part of the settlement of Case No. GR-2001-292. This program assists MGE households at 100% of the Federal Poverty level and below by applying a monthly credit to their bill. Empire District Electric Company has also implemented a program identical to the one described above. These programs have not yet been evaluated and conclusions presented to the Commission by the Staff and Companies.

AmerenUE has the ongoing Dollar More program, and, as a result of the settlement of Case No. EC-2002-1, AmerenUE, as part of the agreement, committed to make an initial \$5 million contribution to its Dollar More Program on September 1, 2002, and continues to contribute \$1 million more each year for the next four years. AmerenUE also created a weatherization fund for its low-income customers, and initially funded it with \$2 million on September 1, 2002, and continues to contribute an additional \$500,000 each year for the next four years. As a result of AmerenUE's initial \$5 million contribution to Dollar More, AmerenUE initiated a program called "Clean Slate," which provided 100% arrearage forgiveness to certain ratepayers. The results of the Clean Slate Program have not been fully compiled and evaluated.

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Q. What are the bill assistance programs currently available to Aquila's low-income natural gas heating customers?

- A. There are two main programs: Energy Assistance (EA), and the Emergency Crisis Intervention Program (ECIP).
  - Q. Please describe the EA program.
- A. The EA program uses Federal Home Energy Assistance Program (LIHEAP) grants to provide one-time (per heating season) assistance to households who:
  - Are at or below 125% of the current Federal Poverty level (FPL).
  - Are responsible for the fuel bills.

This assistance can be applied to their primary heat source, and is a set dollar amount based on the type of fuel, region, household size, and income.

- Q. Please describe the Emergency Crisis Intervention Program (ECIP)?
- A. The ECIP program uses LIHEAP funds to provide emergency assistance to households that:
  - Are at or below 125% of the FPL.
  - Have received a shut-off notice from the utility. This requirement is relaxed if you are age 65 or older.

This assistance is the lesser of the amount required to maintain or reconnect service, or \$600, per heating season.

- Q. Are these programs effective in getting a LIC to the point where they can pay their bill in full, and on time?
- A. The information for that evaluation is currently not available. In order to assess the effectiveness of these programs, Staff needs to evaluate the effect on customer

behavior and what happens with utility expenses such as bad debt and collection expenses. The Staff must analyze these factors prior to the household receiving aid, and after aid has been received. Without this tracking, no one really has an idea of how well bill payment assistance programs work, how they could be improved, and who benefits most from them. This type of information is being collected on customers who received aid through last spring's AmerenUE Clean Slate program. The MGE and Empire programs have not yet been evaluated, although information is being collected so that this can be done.

- Q. Do you have any final comments on the bill-paying assistance offered in the current Federal and utility programs?
- A. Yes, by paying a customer's bill, you are certainly helping them in the short term, but not really changing any of the factors that lead to unmanageable energy costs. If the customer is having a temporary financial crisis, this type of intervention might be appropriate. If, however, the household suffers from a lack of income sufficient to pay all of its bills, a longer term solution is needed.
  - Q. Currently, are their any long-term solutions being performed to aid LICs?
- A. Yes, there is. AmerenUE, Laclede Gas Company and Aquila, Inc. sponsor Weatherization programs, from funds included in ratepayers rates.

### STAFF'S PROPOSED WEATHERIZATION/ PROGRAM

- Q. What does Staff wish to accomplish with this program?
- A. The goals of this program are:
  - To provide an opportunity for the lower-income working and retired citizens of Missouri to pay their bill on time, and in full.
  - To improve the quality of life for our lower-income citizens.

- To decrease the usage of low-income households by requiring weatherization.
- To analyze the effect of an affordable rate on the payment habits of low-income customers at various income levels.
- To provide data that will make it possible to analyze the effect of this type
  of program on utility costs related to arrearage and uncollectible balances
  of the utility, as well as on expenses for activities such as collection, nonpayment disconnects, and customer contacts.
- Q. What are the main components of the program?
- A. There are three main components of the program. They are:
  - Weatherization. Before a household can qualify for the program, it must be weatherized, if deemed necessary under the DOE standards; through an energy audit;
  - 2) Arrearage management. The household will enter into an agreement with the Company to pay off any existing arrearages at a payment to be set at no more than \$20/month, with the payment contributed by the customer being matched by the Company after six months of customers continuously paying their bill.
  - 3) An affordable rate. Households in the program will receive a discounted margin (non-gas) rate and a 25¢ per Ccf credit on their bill to be applied to their PGA costs for the winter (November 1-March 31) usage.
- Q. Why is weatherization the first of your main components?

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A. As I discussed in my Direct Testimony filed on January 6, 2004, the installation of permanent, cost-effective efficiency weatherization measures is an excellent long-term action to address the problem of unaffordable natural gas bills, and should be a part of any program designed to assist low-income customers in paying their utility bills.

#### **PROGRAM PARAMETERS**

- Q. What are the parameters of the program?
- A. The parameters are as follows:
  - If the customers' home cannot be weatherized due to the condition of the residence, the customer will not qualify for the experimental program, but will be referred to other programs for which they may be eligible.
  - A household that is weatherized using this program's funds is eligible, as is any customer whose household income is less than 150% FPL and who is weatherized using funds from another source, as long as the weatherization is consistent with the Weatherization Assistance Program (WAP) guidelines.
  - Households accepted for the project receive a discounted, per unit rate for natural gas service in the winter months of November-March.
  - Household should be given budget counseling and be strongly encouraged to sign up for budget billing on their Aquila gas and electric accounts.
  - The customer's bill, including arrearage repayment, must be kept current.
     Customers will be allowed three late payment occurrences in the first year of implementation of the program. The permissible late payment occurrence will decrease by one for each succeeding year until year four

when late payments will be treated as prescribed in the Company's policies and procedures.

- Customers on the program will be asked to annually provide information to the Commission, which may be obtained by questionnaire or by interview.
- Arrearage Management: For every consecutive six months on the program without a late payment, the Company agrees to reduce the customer's arrearage balance by the same amount the customer paid on that arrearage during the six-month period. In other words, the Company will match the amount of arrearage payment up to the amount the customer paid in a six-month period.
- Customers on the program will be eligible for other energy assistance funds, with the exception of ECIP.
- Q. Why does the Staff want to include Aquila customers who have been weatherized by other programs?
- A. By offering this rate to those LICs, the Company, Staff, OPC and DNR will have an even larger customer base upon which to measure many of the theories contained in this program. For instance, by including these customers in this program and tracking their results the parties will be able to better determine if 50% 125% FPL is an appropriate criteria for program eligibility, or if the FPL limit should be readjusted higher or lower.
  - Q. When would a customer exit the program?
- A. The Staff would recommend that a current paying customer would continue on this program until that household reaches at least 150% FPL, and stays at that level for one year. This requirement would require Missouri Valley Community Action Agency

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(MVCAA) to verify the FPL of each participant annually. The Staff does not believe this to be a great administrative hardship to MVCAA.

#### PARTICIPATION IN THE PROGRAM

- Q. What are the critera for your program?
- Α. This experimental program is aimed at Aquila Networks - MPS gas customers in the Sedalia area whose household income is 50% - 125% of the FPL, and who agree to be weatherized using program funds or other weatherization funds. In addition, the program will be open to any Aquila customers in the 0 - 150% FPL range, if they have been weatherized in the past ten years, subject to the WAP guidelines.
  - Q. How did the Staff select this income range?
- A. The Staff would like to analyze the effect of this type of program on groups of customers of various income levels, but in order to collect much information, the Staff need as many participants as possible. Aquila Networks, Inc. is not one of the large LDC's in the state, such as Laclede Gas Company or Missouri Gas Energy; thus, Staff's program is constrained by the smaller amount of funds available for the weatherization component. At \$2,500 per house, \$50,000 only weatherizes about 20 houses per year. By setting the income eligibility criteria at a level similar to the one used by the WAP, not only will customers weatherized with Aquila funds be eligible for the reduced rate and arrearage management component, but households weatherized by the WAP will be, as well.
- Q. Do you think that there will be enough eligible customers to take advantage of the program?

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A. Yes. With so many of the Sedalia households being heated with natural gas, 2 and given the relatively small scale of this proposal, Staff believes that there will be sufficient 3 participants.

#### **IMPLEMENTATION**

- Q. How much do you believe is appropriate to fund this program?
- Α. As discussed in my Direct Testimony filed on January 6, 2004, Staff recommends that the weatherization part of the program be funded with \$50,000.
  - Q. Are there any other costs associated with the program?
- Yes. The revenue loss associated with the rate discounts is a program cost. A. Staff proposes that this cost be recovered from other customers in their margin rates.
  - Q. Who will administer this program?
- MVCAA currently administers the Missouri Weather Assistance Program, A. funded by DOE, as well as the federal LIHEAP and ECIP programs, so they have valuable experience with this type of program. By implementing this pilot program in addition to the existing program, administrative costs will be kept at a minimum, as will necessary start-up time and activities.

MVCAA will be responsible for taking applications, verifying household income, and providing the energy audit and weatherization to the participants. In addition, MVCAA has an office in every town of any size in the region, which will aid in outreach efforts.

- Will this pilot program require additional work for Aquila? Q.
- Yes, Aquila, as the Company sponsoring the program, will have an important Α. role in tracking the actual results of this program. The tracking will involve customer data and will require Aquila to compile this data. Aquila, Staff and the Office of the Public

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Counsel (OPC) will monitor the program and begin analyzing the results after the program has been operating for one year. However, this additional work should not create a significant increase in administration costs to Aquila since the number of program participants is not a large number of customers.

- Q. When does the Staff believe this program can be implemented?
- Α. The administrative details of the rate component of the plan will take a some time, but I believe if Staff, OPC, Aquila Networks - MPS and the Missouri Valley Community Action Agency work together in a timely fashion, the rates could be in effect going into the 2004-2005 heating season, with energy audits and weatherization beginning this summer.

#### **SUMMARY**

- Please summarize the Staff's position. Q.
- The Staff is proposing a low-income customer program with the hope that A. certain groups of low-income natural gas customers can become customers that are able to pay their bill in full every month. This program provides the customers an incentive for prompt payment. Arrearage forgiveness tied to successful payment, and the provision that the customers stay current on their bill to stay on the program gives the customer a strong incentive. Staff recognizes that this change in behavior and ability to pay will not happen overnight. Many of these customers have not been able to pay regularly in quite some time, and it will require some effort to get to that point. The program has addressed this behavioral change.

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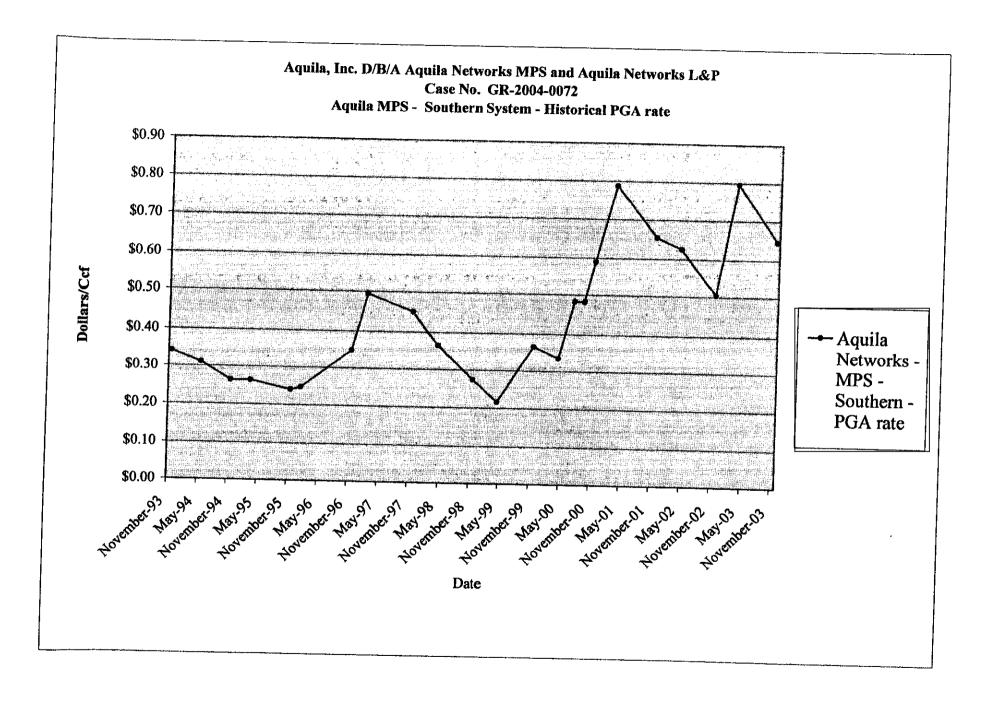
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The weatherization component of the program will result in lower usage and a more affordable bill, leading to both an increased ability to pay and an improvement in their quality of life.

- Q. Does this conclude your Direct Testimony?
- A. Yes.



### Aquila, Inc. D/B/A Aquila Networks MPS and Aquila Networks L&P Case No. GR-2004-0072 2003 Federal Poverty Guidelines

Size of			
Family	50%	100%	125%
<u>Unit</u>	of FPL	of FPL	of FPL
1	<b>\$4,490</b>	\$8,980	\$11,225
2	\$6,060	\$12,120	\$15,150
3	\$7,630	\$15,260	\$19,075
4	\$9,200	\$18,400	\$23,000
5	\$10,770	\$21,540	\$26,925
6.	\$12,340	\$24,680	\$30,850
7	\$13,910	\$27,820	\$34,775
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Source: Federal Register, Vol. 68, No. 26, February 7, 2003, pp. 6456-6458